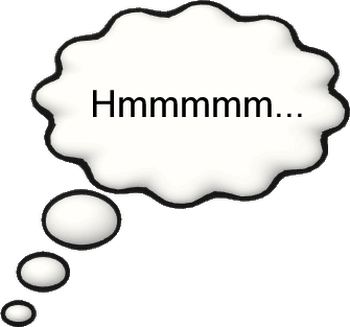
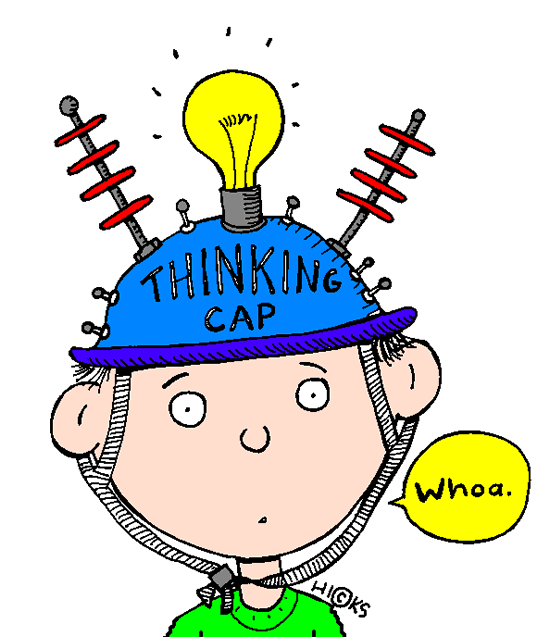
**Optics Pre Unit Assessment**

Name:

Date:

**How Much “Can” You Do?**





|  |  |
| --- | --- |
| **Level of understanding Color Scheme** | |
| Green | I am Confident |
| Yellow/ Orange | I am Somewhat Confident |
| Red/Pink | I am Not Confident Yet |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| *Determine your level of understanding for each statement below, and color in each “stage of the unit box” with the appropriate color (see above table for colors and their meaning)* | | **Level of understanding** | | |
| **Beginning** | **Middle** | **End** |
| 1 | I can describe the many different sources that produce light |  |  |  |
| 2 | I can determine whether light will be reflected, transmitted, or absorbed depending on the material that it strikes |  |  |  |
| 3 | I can state what the colors of the rainbow are and why |  |  |  |
| 4 | I can define the different components of the electromagnetic spectrum based on their amplitude or frequency |  |  |  |
| 5 | I can explain why you see a reflection of mountains and the sky in a lake below them |  |  |  |
| 6 | I can classify images as real or virtual based on how they are made |  |  |  |
| 7 | I can predict the path of a light beam when it comes in contact with a plane or curved mirror and its resulting image |  |  |  |
| 8 | I can predict the path of a light beam when it comes in contact with a convex or concave lens and its resulting image |  |  |  |
| 9 | I explain the light, color, and the human eye |  |  |  |
| 10 | I can name the different parts of the eye and give a brief description of what they do to help us see |  |  |  |
| 11 | I can explain why contact lenses or glasses help people see better |  |  |  |
| 12 | I can use a model of the eye to explain how telescopes and microscopes enhance our vision |  |  |  |

|  |  |  |  |
| --- | --- | --- | --- |
| *How well do you know the definitions to these key words?* | **Level of understanding** | | |
| **Beginning** | **Beginning** | **Beginning** |
| Light |  |  |  |
| Reflection |  |  |  |
| Refraction |  |  |  |
| Translucent |  |  |  |
| Electromagnetic radiation |  |  |  |
| Mirror |  |  |  |
| Lens |  |  |  |
| Convex |  |  |  |
| Concave |  |  |  |
| Iris |  |  |  |
| Pupil |  |  |  |
| Near sighted |  |  |  |